

PECHACEK, Miroslav; DULICEK, Karel

Presence of beta 2 M globulin fractions in infectious hepatitis.
Sborn. ved. prac. lek. fak. Karlov. Univ. 8 no.5:583-585 '65.

1. Infekční klinika (prednosta - prof. MUDr. J. Ondracek) Kraj-
ského ústavu národního zdraví v Hradci Králové.

DULICER, Karel

Infectious hepatitis in diabetics. Sborn. ved. prac. lek. fak.
Karlovy. Univ. 8 no.5:575-578 '65.

1. Infekční klinika (prednosta prof. MUDr. J. Ondracek) Krajského ústavu národního zdraví, Hradec Králové.

DULICEK, K.; KOTRLIK, J.

Contribution to the importance of observing the level of serum transaminases during recovery from infectious hepatitis. Cas. lek. Cesk. 104 no.46:1279 19 N '65.

1. Infekční klinika lékařské fakulty Karlovy University v Hradci Králové (prednosta prof. dr. J. Ondracek).

~~Doc. MUDr.~~ DULIK, Frantisek, MUDr

KUNC, Zdenek, Doc. MUDr; DULIK, Frantisek, MUDr

Carotid-cavernous aneurysm with contralateral pulsating
exophthalmos. Czech. ophth. 10 no.1:30-36 Mr '54.

1. UVE, Praha.

(FISTULA, ARTERIOVENOUS.

*carotid-cavernous, with contralateral exophthalmos)

(ARTERIES, CAROTID, fistula,

*carotid-cavernous, with contralateral exophthalmos)

(VEINS, CRANIAL SINUSES, fistula,

*carotid-cavernous, with contralateral exophthalmos)

(EXOPHTHALMOS,

*pulsating, with contralateral carotid-cavernous fistula)

HERFORT, Karel; DULIK, Frantisek, ROSCH, Josef

Splenoportography in the diagnosis of pancreatic diseases. Cas.lek.
cesk. 99 no.9:269-276 26 F '60.

1. Interni oddeleni polikliniky KU v Praze a rentgenove oddeleni
Ustredni vojenske nemocnice v Praze.
(ANGIOGRAPHY)
(PANCREAS)

IVANOV, N.I.; DULIN, A.A.

Improving the efficiency of glass grinding and polishing operations.
Stek.l ker. 12 no.12:25-27 D '55. (HLRA 9:3)

1. Stekol'nyy zavod "Proletariy".
(Glass manufacture)

DULIN, B.M., inzh.

Installation of mechanical equipment and steel structures in the
Uch-Kurgan Hydroelectric Power Station. Energ. stroi. no. 32:56-58
'62. (MIRA 16:5)

1. Sredneasiatskiy montashnyy uchastok Gosudarstvennogo vsesoyuznogo
stroitel'no-montazhnogo tresta Glavgidroenergomontazha Ministerstva
stroitel'stva elektrostantsiy SSSR.

RUBINSKIY, Yu.M., dotsent, kand.ekonom.nauk; VOROB'YEVA, A.I., starshiy nauchnyy sotrudnik; PROKOPENKO, M.D., starshiy nauchnyy sotrudnik; DULIN, G.Y., starshiy nauchnyy sotrudnik; KRYZHKO, I.D., starshiy nauchnyy sotrudnik. Prinimali uchastiye: KACHKO, Yu.Ya., mladshiy nauchnyy sotrudnik; FILIMONOVA, V.F., mladshiy nauchnyy sotrudnik; YAKIMENKO, G.S., mladshiy nauchnyy sotrudnik; VEREMEY, Ye.M., starshiy prepodavatel'; SLUNITSYN, D.I., student. MIROSHNICHENKO, V.D., red.isd-vá; KOROVENKOVA, Z.A., tekhn.red.

[Time study research in coal mines] Khronometrashnye issledovaniia na ugol'nykh shakhtakh. Moskva, Ugletekhnizdat, 1959. 278 p.

(MIRA 13:9)

1. Dnepropetrovsk. Dnepropetrovskiy gornyy institut. 2. Dnepropetrovskiy gornyy institut (for Rubinskiy, Kachko, Filimonova, Veremey). 3. Donetskoy nauchno-issledovatel'skiy ugol'nyy institut (for Vorob'yeva, Prokopenko, Dulin, Kryzhko, Yakimenko).
4. 5-y kurs gorno-ekonomicheskoy spetsial'nosti Dnepropetrovskogo gornogo instituta im. Artyoma (for Slunitsyn).

(Time study) (Coal mines and mining--Production standards)

DULIN, I.

At the levers of an excavator. Tekh, maled, 20, No 5, 1952.

OSMOLOVSKIY, V.V.; IOFFE, Z.M.; SOKOLOV, V.P.; DULIN, I.L.

Improvement of planning and stimulation of interest in bonuses on the part of miners (discussion of the article by A.V. Baronanov). Gor. zhur. no.10:22-24 0 '63.

(MIRA 16:11)

1. Krivorozhskiy gornorudnyy institut (for Osmolovskiy).
2. Dzerzhinskiy gosudarstvennyy trest sheskorudnoy promyshlennosti, Krivoy Rog (for Ioffe).
3. Pechorskiy nauchno-issledovatel'skiy ugol'nyy institut (for Sokolov, Dulin).

DULIN, I.L.; YESIPOV, P.T.; ANTONOV, N.V.; KANEV, A.I.; SOKOLOV,
V.P.; BUGRO, Z.N.; POPOV, V., red.

[The Pechora Coal Basin in the seven-year plan; a technical
and economic survey for 1958-1963] Pechorskii ugol'nyi bas-
sein - v semiletke; tekhniko-ekonomicheskii obzor za 1958-
1963 gg. Syktyvkar, Komi knizhnoe izd-vo, 1964. 92 p.
(MIRA 18:4)

DULIN, I.I.; BOGDANOV, M.I.; KICHAYEVA, G.K.; POPOV, V., red.

[Long term planning of timber for coal mines] Perspektiv-
noe planirovaniye lesomaterialov na ugol'nykh shakhtakh.
Syktyvkar, Komi knizhnoe izd-vo, 1964. 47 p.
(MIRA 18:6)

KOSYREV, Yevgeniy Arkad'yevich; AGEYEV, B.A., inzh.-kapitan, red.;
DULIN, M.V., inzh.-mayer, red.; MYASHNIKOVA, T.F., tekhn.red.

[Superhigh frequency molecular generators and amplifiers]
Molekuliarnye generatory i usiliteli sverkhvysokikh chastot.
Moskva, Voenisdat, 1963. 78 p. (MIRA 16:10)
(Masers) (Microwaves)

PRIGODA, Boris Alekseyevich; KOKUN'KO, Valentin Sergeyevich;
DULIN, M.V., red.

[Aircraft antennas] Antenny letatel'nykh apparatov.
Moskva, Voenizdat, 1964. 118 p. (MIRA 17:12)

DULIN, V.

Youth participation in mine construction. Sov.shakht. 10 no.4:
32 Ap '61. (MIRA 14:9)

1. Glavnyy inzh. Stroitel'nogo uchastka No.3 tresta Dolinskshakhtostroy Karagandinskogo sovnarkhosa.
(Karaganda Basin—Coal mines and mining)
(Communist Youth League)

AUTHOR: Dulin, V.A., Foreman 91-58-6-26/39

TITLE: Fuse Testing Panel (Shchitok dlya proverki predokhraniteley)

PERIODICAL: Energetik, 1958, Nr 6, pp 26-27 (USSR)

ABSTRACT: The author describes a simple panel for testing fuses quickly and safely. Any insulating material may be used for the panel, which is fitted with a switch, transformer, signal lamp, a fuse box into which the fuse under test is screwed, and two copper bars at an angle for testing tubular fuses of various sizes. There is one circuit diagram.

AVAILABLE: Library of Congress

Card 1/1 1. Fuses (Electricity) - Test equipment

DULIN, V.A., insh.

Basic quality requirements in the design of low-voltage apparatus. Vest. elektroprom. 31 no.5:56-63 My '60. (MIRA 13:8)
(Electric apparatus and appliances)

21(7)

AUTHORS:

Belov, S. P., Dulin, V. A., Kazanskiy, Yu. A., Kukhtevich, V. I., Tsypin, S. G.

SOV/89-6-6-11/27

TITLE:

Space and Energy Distribution of the Neutrons in Boron Carbide
(Prostranstvennoye i energeticheskoye raspredeleniye neytronov v karbide bora)

PERIODICAL:

Atomnaya energiya, 1959, Vol 6, Nr 6, pp 663 - 665 (USSR)

ABSTRACT:

The authors report on investigations of space and energy distributions of 3 and 15 Mev neutrons in boron carbide. The 3 Mev neutrons were the product of the reaction $H^2(H^2, n)He^3$, the 15 Mev neutrons from $H^2(H^3, n)He^4$. The test arrangement (infinite geometry) is briefly described. Boron carbide $\rho = 1.18 \pm 0.05 \text{ g/cm}^3$, neutron detectors: 1) proportional counter with BF_3 enriched to 88% with B^{10} , 2) fission chamber with natural uranium, U^{235} (enriched to 75%), and Th^{232} ; 3) threshold indicators: $P^{31}(n, p)Si^{31}$, $Al^{27}(n, p)Mg^{27}$, $Fe^{56}(n, p)Mn^{56}$, $Sb^{121}(n, 2n)Sb^{120}$, $Cu^{63}(n, 2n)Cu^{62}$, $In^{115}(n, \gamma)In^{116m}$. Figure 1 shows the space neutron distribution (3 and 15 Mev) in the passage through

Card 1/3

Space and Energy Distribution of the Neutrons in Boron Carbide SOV/89-6-6-11/27

boron carbide. Detectors for the 3 Mev neutrons: 1) and 2), for the 15 Mev neutrons, 2) and 3). It was found among others that an increase of the threshold energy of the detector increases the inclination of the attenuation curves of the neutrons. In measuring the 15 Mev neutron attenuation by means of the indicator

$\text{Cu}^{63}(n,2n)\text{Cu}^{62}$ ($E_{\text{thresh}} = 10.9 \text{ Mev}$) the relaxation path for the distance source - detector $R > 16 \text{ cm}$ does not change and is close to the transport path $\lambda_{\text{tr}} = 18 \pm 2 \text{ cm}$. A comparison of the data contained in the present paper with those from reference 1 (Geneva Paper Nr 2147, 1958) is briefly discussed. The following relative capture figures are determined;

indicator:	Cu^{63}	Sb^{121}	Fe^{56}	Al^{27}	P^{31}	In^{115}
measurement						
by counter	6.5 ± 1	8 ± 2	1	0.73 ± 0.15	1.04 ± 0.15	-
by spectro-	-	-	1	0.65 ± 0.15	-	6 ± 2
meter						

Card 2/3

Space and Energy Distribution of the Neutrons in Boron Carbide SOV/89-6-6-11/27

Figure 2 shows the energy distribution of the neutron flux in boron carbide for different intervals (energy interval 1.5 - 15 Mev, results standardized in the interval 13.5-15 Mev). Moreover, the ratio between $\sigma_{U 235}(E_{eff})$ and $\sigma_{B 10}(E_{eff})$ of the reaction (n, α) with B^{10} in boron carbide was determined. In the case of 3 Mev neutrons 0.97 ± 0.03 was obtained at $E_{eff} = 120 \pm 10$ kev. In conclusion, the authors thank I. I. Bondarenko for advice and discussions, N. D. Proskurnina, V. P. Bashmakov, A. N. Nikolayev, and V. I. Popov for assistance in the experiments as well as A. N. Serbinov and I. A. Vorontsov for work at the neutron generator. There are 2 figures, 1 table, and 4 references, 2 of which are Soviet.

SUBMITTED: January 6, 1959

Card 3/3

84233

S/089/60/009/004/013/020
B006/B070

26.2241

21.1700

AUTHORS:

Dulin, V. A., Kazanskiy, Yu. A., Mashkovich, V. P.,
Panov, Ye. A., Tsypin, S. G.

TITLE:

Investigation of the Attenuation Functions for Water Exposed
to Isotropic and Highly Collimated Sources of Fission
Neutrons

PERIODICAL: 19 Atomnaya energiya, 1960, Vol. 9, No. 4, pp. 315 - 317

TEXT: In this "Letter to the Editor", the authors report on an experimental investigation of the space distribution of fission neutrons in water, the source of neutrons being a BP-5 (BR-5) reactor. The neutrons came out of a hole in a concrete shield (diameter 250 mm) and fell on a tank (137-139-217 cm) filled with doubly distilled water. The neutron beam had a total angular divergence of $\sim 5^\circ$. The neutrons were detected by proportional boron counters. Measurements could be made at each point of the tank, and the position of the point could be determined with an accuracy of 1 mm. Fig. 1 shows the geometry. Figs. 2 and 3 show the measured neutron distributions for different values of r (distance from

Card 1/3

X

Investigation of the Attenuation Functions for ⁸⁴²³³S/089/60/009/004/013/C20
 Water Exposed to Isotropic and Highly Collimated Sources of Fission Neutrons B006/B070

the source) and different values of h (distance from the beam). Fig. 4 shows the attenuation function of neutrons of an isotropic point source multiplied by r^2 (curve a), and the attenuation function of a highly collimated plane source (b). The maximum error of the curve a occurs for small r (r = 40 cm, ~20%), and the minimum error (~5%) occurs for large r. The error of the curve b is between ~5% for r = 40 cm and ~20% for r = 140 cm. The two curves diverge from each other by about 20%, but this is within the limits of the error of measurement. Therefore, for thicknesses of water shield larger than 40 cm, the two curves may be considered to be coincident. Fig. 5 shows, for comparison, the experimentally obtained (Ref. 2) attenuation functions for neutrons of an isotropic disk source (diameter 71.2 cm). The attenuation functions according to which the curves are drawn read:

$$G_{\text{point}}(r) = C_1 \int_0^{\pi/2} H(r, \theta) \sin \theta d\theta; \quad G_{\text{plane}}(r) = C_2 \int_0^{\infty} H(r, h) h dh; \quad \text{and}$$

Card 2/3

Investigation of the Attenuation Functions for
Water Exposed to Isotropic and Highly
Collimated Sources of Fission Neutrons

84233

S/089/60/009/004/013/020
B006/B070

$D_{\text{disk}}(r, a) = 2\pi \int_0^{\sqrt{r^2 + a^2}} G_{\text{point}}(R) R dR$. a is the radius of the disk; $H(r, \theta)$
and $H(r, h)$ are the distribution functions shown in Figs. 2 and 3; and the
 C_1 are constants. The authors thank O. I. Laryunskiy and V. V. Orlov for
discussions and comments. There are 5 figures and 4 references: 2 Soviet
and 2 US.

SUBMITTED: April 27, 1960

X

Card 3/3

84234

S/089/60/009/004/014/020
B006/B070

21.1700
26.2244

AUTHORS: Dulin, V. A., Mashkovich, V. P., Panov, Ye. A., Taypin, S.G.

TITLE: Energy Distribution of Fast Fission Neutrons in Water

PERIODICAL: Atomnaya energiya, 1960, Vol. 9, No. 4, pp. 318 - 319

TEXT: The authors report on an experimental investigation of the energy distribution in water of fission neutrons from SP-5 (BR-5) reactor. The experimental arrangement is described in Ref. 5. The fast neutrons were detected by threshold indicators which had the form of disks of a diameter of 35 mm and different thicknesses. Data referring to these indicators are given in a table. The disks were oriented at different angles θ with the direction of the incident neutron beam, and placed at different distances h from the beam. Fig. 1 shows the activity of the indicators as a function of θ for $r = 30$ cm (normalized at $\theta = 90^\circ$). Fig. 2 shows the activity of phosphorus indicators as a function of h for $r = 30$ cm, and $r = 60$ cm (normalized at $h = 0$). Fig. 3 shows the energy distribution of neutrons in water at distances of 30 and 60 cm, calculated from the geometry of the experiment for a point source. The neutron

Card 1/3

Energy Distribution of Fast Fission Neutrons in Water ⁸¹²³⁴ S/089/60/009/004/014/020
B006/B070

spectrum is obtained from a solution of the system of equations $N_i(r)$

$$= c\varepsilon_i [1 - \exp(-\lambda_i T)] \cdot \exp(-\lambda_i t) \int_{E_{t_i}}^{\infty} \Phi(r, E) \sigma_i(E) dE$$

$$= c\varepsilon_i [1 - \exp(-\lambda_i T)] \exp(-\lambda_i t) \sum_{j=1}^n \Phi_j(r, E) \sigma_{ij}(E) \Delta E_j \text{ by the method of}$$

successive approximations. Here, $N_i(r)$ denotes the activity of the i -th threshold indicator at a distance r from the source after irradiating the indicator for a time T and then waiting for a time t ; ε_i is the efficiency of the recording of the activity of the indicator including the correction for absorption and scattering in the sample, air, and counter window; $\sigma_i(E)$ is the reaction cross section at energy E ; $\Phi(r, E)$ is the differential neutron flux of energy E at a distance r from the source; c is a constant; i is the index of the indicator ($i = 1, 2, \dots, n$); and j is the index of the

Card 2/3

Energy Distribution of Fast Fission Neutrons in Water

81224
S/089/60/009/004/014/020
B006/B070

energy range. $N_i(r)$ is calculated from the formula $N_i(r) = c_i \int_0^{\pi/2} N_i(r, \theta) \sin \theta d\theta$, where $N_i(r, \theta)$ is the activity of the i -th threshold indicator at a distance r and an angle θ ; c_i is a constant. The relative ϵ_i values were determined experimentally for each indicator. Fig. 3 gives a comparison of the data obtained with the calculated neutron spectrum (Ref. 1) (normalized at $r = 30$ cm). The divergences between the two lie between 30 and 50%, which is practically within the limits of error ($\sim 30\%$). The authors thank O. I. Leypunskiy and V. V. Orlov for discussions and comments. There are 3 figures and 6 references: 3 Soviet and 3 US.

SUBMITTED: April 27, 1960

Card 3/3

21394

S/120/61/000/002/004/042

E032/E114

26.2242

AUTHORS: Dulin, V.A., Kazanskiy, Yu.A., Kuznetsov, V.F., and Smirenkin, G.N.

TITLE: A single-crystal, fast neutron scintillation spectrometer with discrimination against gamma-rays

PERIODICAL: Priory i tekhnika eksperimenta, 1961, No.2, pp.33-41

TEXT: The transformation of the amplitude distribution due to recoil protons into the neutron energy spectrum in the case of a small crystal (negligible multiple neutron scattering) for which the light output depends linearly on the proton energy, can easily be carried out by differentiating the experimental spectrum. In fact, in the case of stilbene which was used by the present authors the relation is not linear and small crystals cannot be used if an adequate counting efficiency is to be obtained. The light output due to recoil protons and the form of the amplitude distribution due to monoenergetic neutrons was investigated using a Van de Graaf generator and the $T(p,n)He^3$, $D(d,n)He^3$ and $T(d,n)He^4$ reactions. Neutron energies in the following ranges could thus be obtained: 0.3-3.5, 4-7.5 and Card 1/ 7

21394

S/120/61/000/002/004/042
E032/E114

A single-crystal, fast neutron scintillation spectrometer with discrimination against gamma-rays

17-22 Mev respectively. The amplitude distributions due to recoil protons for 4.3 and 16.8 Mev neutrons are shown in Fig.1. The recoil-proton energy distribution $P(E)$ can be obtained from the amplitude distribution $\Phi(V)$ with the aid of the following relation:

$$\Phi(V)dV = P(E)dE,$$

$$P(E) = \Phi[V(E)] \frac{dV}{dE} = F(E) \frac{dV}{dE} \quad (1)$$

The functions $V(E)$ and $dV(E)/dE$ which are necessary to compute the neutron spectra are shown in Fig.2. The experimental values of $V(E)$ are well represented by the Birks theory (Ref.1) according to which

$$V(E) = \int_0^E \frac{dV}{dE'} dE' = \text{const} \int_0^E \frac{dE'}{1 + kB \cdot dE'/dx} \quad (3)$$

Card 2/ 7

22394

S/120/61/000/002/004/042
E032/E114

A single-crystal, fast neutron scintillation spectrometer with discrimination against gamma-rays

If dE'/dx is expressed in Mev/cm of the range in air then kB turns out to be 20 cm/Mev. Fig.3 shows the recoil proton spectra for 1.0, 1.8 and 3.6 Mev neutrons. These curves were obtained with a cylindrical stilbene crystal (30 mm diameter, 15 mm long). The curves have a hump at the high energy end which is due to multiple neutron scattering. The latter effect is small for neutron energies greater than about 2 Mev. It can therefore be neglected at the higher energies. Fig.4 shows the energy dependence of the resolution of the single-crystal spectrometer. The resolution in the energy range 1-22 Mev can be described by the formula:

$$\Delta E_n/E_n = 20/\sqrt{E_n} \%$$

The efficiency of the spectrometer η can be described by:

$$\eta(E_n) = \frac{1 - \exp[-\sum(E_n)d]}{E_n} \Delta E \quad (4)$$

Card 3/7

22394

S/120/61/000/002/004/042

E032/E114

A single-crystal, fast neutron scintillation spectrometer with discrimination against gamma-rays

where ΔE is the differentiation step for the recoil proton distribution. The efficiency for the above stilbene crystal was found to be about 3% at 2 Mev and about 0.5% at 10 Mev (the differentiation step was taken to be equal to the energy resolution ΔE_n). The discrimination against gamma rays is based on the differences in the effective scintillation decay constant for neutrons and gamma rays. The present authors have used the scheme suggested by Birks and described in detail by F.D. Brooks in Nucl. Instrum. and Methods, 1959, 4, 151 (Ref.5). Fig.13 shows neutron spectra for a Po-Be source (curve 1 - present results, curves 2 and 3 due to B.G. Whitmore and W.B. Backer (Ref.7: Phys.Rev., 1950, 78, 799) and J.O. Elliot and W.I. McGarry and W.R. Faust (Phys.Rev., 1954, 93, 1348, Ref.8). It is stated that the overall efficiency for neutrons having an energy of 2 Mev has been increased to about 10%. The gamma ray efficiency is lower by a factor of 100. Acknowledgements are expressed to L.D. Gordeyev, Yu.I. Baranov, V.I. Bol'shov and Card 4/7

S/120/61/000/002/004/042

A single-crystal, fast neutron.... E032/E114

Yu.V. Pankrat'yev for assistance in this work.

There are 14 figures and 9 references: 2 Soviet and 7 English.

SUBMITTED: June 26 1960

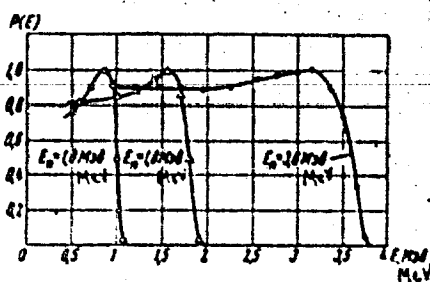


Fig. 3

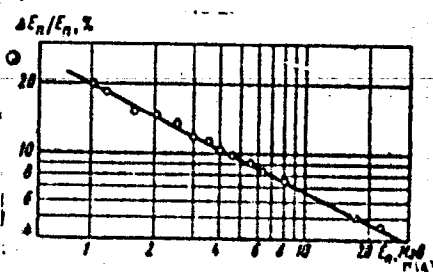


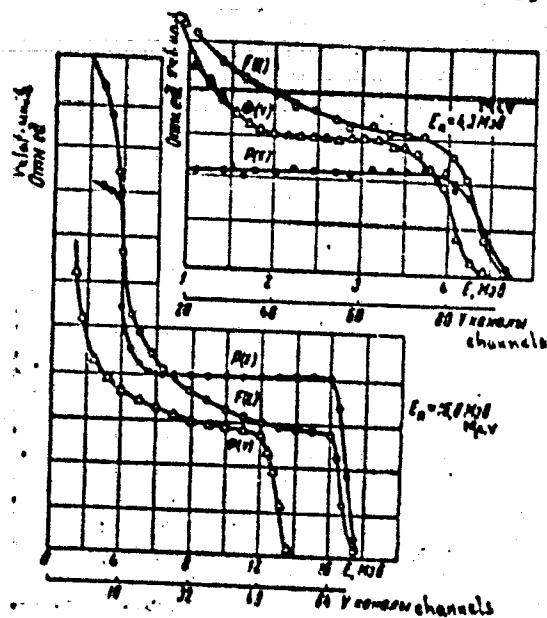
Fig. 4

Card 5/7

22394

A single-crystal, fast neutron

S/120/61/000/002/004/042
E032/E114

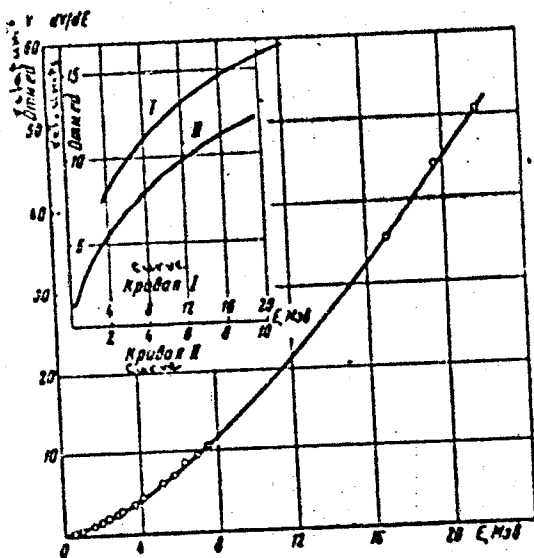


2394

S/120/61/000/002/004/042

EO32/E114

A Single-crystal, fast neutron....



Card 7/7 Fig. 2

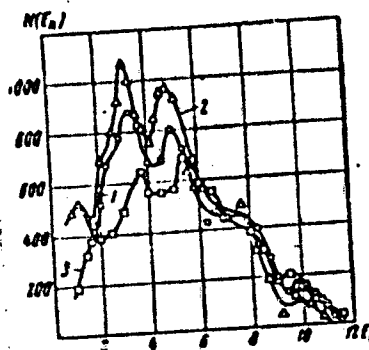


Fig. 13

ACCESSION NR: AT4019059

S/0000/63/000/000/0251/0260

AUTHOR: Dulin, V. A.; Kazanskyy, Yu. A.; Matusovich, Ye. S.

TITLE: Experimental methods for the study of shielding (radiation detector)

SOURCE: Voprosy* fiziki zashchity* reaktorov; sbornik statey (Problems in physics of reactor shielding; collection of articles). Moscow, Gosatomizdat, 1963, 251-260

TOPIC TAGS: nuclear reactor, reactor shielding, scintillation counter, radiation dosimetry, relative biological effectiveness, Monte Carlo method, radiation shielding, radiation detector, neutron spectrum, Gamma ray spectrum, neutron distribution, Gamma ray distribution, radiometry

ABSTRACT: The authors call attention to the need for the study not only of the total radiation dosage behind the shielding, in connection with the development of nuclear power, but also of its more detailed characteristics (e.g., the spatial and energy distribution of the neutrons and gamma-rays in the shielding, the angular and energy distribution of the neutrons and gamma-rays on the surface of the shielding, etc.). At the present time, practically all the modern means of radiation recording are used to investigate the spatial, energy and

Cord 1/4

ACCESSION NR: AT4019059

angular distributions of penetrating radiation in the shielding. The various requirements levied on sensors of ionizing radiation are reviewed. The point is made that in the problem of the passage of radiation within shielding, exhaustive information is contained in the angular energy distribution at each point in space with different geometries, the anisotropy functions and the energy levels of the radiation sources. It is noted that for the development of computation methods, comparatively incomplete information such as the spatial distribution of the dosage of gamma-rays and neutrons in the shielding, the behavior of neutron streams having energy levels above a certain threshold, the angular distribution of streams of gamma-rays and neutrons on the surface of the shielding, etc. is of extremely great value in that it permits the application, when studying shielding, of very simple but nonetheless effective methods involving the use of dosage and fission chambers, threshold indicators and the like. The measurement of integral characteristics is considered with special attention to the problems of gamma-ray and neutron dosage determination. The use of miniature ionization chambers is discussed and their characteristics are described. Dosimetric instruments, including scintillation counters, are analyzed in the light of their expectable performance in typical applications. A fundamental shortcoming of such devices

2/4

Card

ACCESSION NR: AT4019059

is shown to be their inability to measure gamma-ray doses when neutrons are present. The method of pulse amplitude summing as a technique for enhancing the operational properties of the scintillation dosimeter is described. The fiber-equivalent polyethylene proportional detector (for neutron dosage measurements) is described and its operational principle analyzed. The concept of the "relative biological effectiveness" of neutrons as a function of their energy is discussed, and the difficulties encountered in its precise measurement are outlined. A section of the article is devoted to the measurement of neutron streams, in which it is pointed out that the technology of measuring the spatial distributions of such streams in the shielding does not differ essentially from the measurement of flow conditions encountered in the solution of other problems. The differences that do exist, in terms of sensitivity requirements and other instrumentation parameters, are noted. The authors note that gamma-ray spectral distribution studies are currently being pursued in two fundamental directions: (1) acquisition of data with respect to the spectra of the sources of gamma-radiation (for example, the reactor, the volumetric sources of gamma-rays, etc.); and (2) measurement of the angular and spectral distributions at the boundary of the medium, which also describe the radiation sources and, on the other hand, are absolutely indispensable for the computation of shadow shielding and the passage of

Card 3/4

ACCESSION NR: AT4019059

gamma-rays in heterogeneous media; that is, in those problem areas which do not as yet lend themselves to analytical computations. Various methods used in this connection are discussed; among them, certain experimental techniques involving the determination of the form of the amplitude distribution of the pulses, the "random test method" (Monte Carlo method), and the use of spectrometers with NaI (Tl) crystals. The final section of the paper deals with the problem of neutron spectra measurements, and the techniques and instruments suitable for such investigations. "The authors express their deep gratitude to A. I. Abramov, V. I. Kukhtevich, V. P. Mashkovich, V. I. Popov, B. I. Sinitsyn and S. G. Tsyplin for their valuable contributions to this work".

ASSOCIATION: none

SUBMITTED: 14Aug63

DATE ACQ: 27Feb64

ENCL: 00

SUB CODE: NP

NO REF SOV: 019

OTHER: 015

Card 4/4

DULIN, V.A.

AID Nr. 977-6 27 May

ENERGY DISTRIBUTION OF SCATTERED NEUTRONS IN WATER (USSR)

Dulin, V. A., Yu. A. Kazanskiy, and I. V. Shugar. Atomnaya energiya, v. 14, no. 4, Apr 1963, 404-405. S/089/63/014/004/011/019

The neutron spectra in water from an -15 Mev neutron source have been measured at distances of 20 to 90 cm from the source, which was an $\text{H}^3(\text{H}^2, \text{n})\text{He}^3$ reaction with deuteron energy of 400 Kev. A single-crystal fast-neutron scintillation spectrometer with γ -ray discrimination was used as a detector. The results obtained are presented in the form of histograms which can be used for determining the relaxation length for a group of neutrons with energy of 14 to 16 Mev. At distances of 30 to 60 and 60 to 90 cm, the relaxation length was found to be 15.0 ± 0.8 and 14.7 ± 0.9 cm, respectively, which is in good agreement with the results obtained previously with a $\text{Cu}^{63}(\text{n}, 2\text{n})\text{Cu}^{62}$ indicator by B. I. Sinitsyn, [AS]

Card 1/1

2. The following information is being provided:

1. The following information is being provided:

1. The following information is being provided:

1. The following information is being provided:

1. The following information is being provided:

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041151

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041151

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041151

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R000411510

BELOV, S.P.; DULIN, V.A.; KAZANSKIY, Yu.A.; TSYPIN, S.G.

Angular distribution of 3 and 15 Mev. neutrons in beryllium.

Atom. energ. 18 no.1:67-68 Ja '65.

(MIRA 18:2)

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041151

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041151

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041151

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041151

L 1160-66 ENT(m)/EPP(n)-2/ENA(h)

ACCESSION NR: AT5023146

UR/2892/65/000/004/0031/0035

AUTHOR: Dvukhshestnov, V. G., Dulin, V. A.

TITLE: Energy distribution of neutrons at the boundary of two media

SOURCE: Moscow Inzhenerno-fizicheskii Institut Voprosy dozimetrii i zashchity ot izlucheni, no. 4, 1965, 31-35

TOPIC TAGS: neutron energy distribution, boundary layer theory, fast neutron, radiation source, Monte Carlo method, water, graphite, iron, lead, aluminum, nickel

ABSTRACT: The article is devoted to the measurement of the energy distribution of neutrons from a point source of fast neutrons with average energies of 3.25 Mev at the boundary of a medium-water. Tests were made on materials of the following thicknesses: water (15 cm), graphite (20 cm), aluminum (10 cm), iron (12 and 15 cm), nickel (6 and 12 cm) and lead (12 cm). The neutron source was ^{238}Pu reaction with a deuteron energy of 400 keV. The minimum thickness of the material was 6 cm. The measurements were carried out at a distance of 10 cm from the source placed at the medium-water boundary. Measurement of energy distribution was carried out by means of a Geiger counter.

L 1160-66

ACCESSION NR: AT5023146

... was done with a monocrystal scintillation fast neutron spectrometer. A figure shows the experimental energy distribution for water, graphite, iron, aluminum, and nickel, as well as the energy distribution of neutrons in graphite and iron, calculated by the method of ... for an isotropic source of neutrons with energies of 3-4 Mev) and by the Monte Carlo method for a practically flat monoenergetic neutron source with energies of 3 Mev. Original has 2 figures

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NR REF SOV: 001

OTHER: 005

Card 2/2 DP

19-13-66 ENT(n)/ENA(h)

TITLE: Transformation of integral amplitude distributions into
neutron energy spectra 19,94.05

SOURCE: Atomnaya energiya, v. 20, no. 2, 1966, 1-3

TOPIC TAGS: neutron spectrum, neutron detector, scintillation
detector, pulse height analyzer, nuclear reaction product, iron,
uranium

ABSTRACT: This is an abstract of article N. 5, 1966, submitted to
the journal but not published in it. The article improves the
accuracy with which the neutron energy spectrum is obtained by dif-
ferentiating the integral spectra of pulses from a scintillator. This
is done by using a least-squares method of determining the derivative,

Card 1/2 UDC: 539.16.08:539.125.5

2

L 06993-67 EWT(m)/EWP(t)/ETI LJP(c) JD/WW/JG/JR
ACC NR: AP6021522 SOURCE CODE: UR/0089/66/020/006/0469/0473

AUTHOR: Goryachev, I. V.; Dulin, V. A.; Yermakov, S. M.; Kolyshenkova, V. V.;
Suvorov, A. P.; Trykov, L. A.

ORG: none

TITLE: Angular distribution of fast neutrons behind iron shields

SOURCE: Atomnaya energiya, v. 20, no. 6, 1966, 469-473

TOPIC TAGS: neutron distribution, fast neutron, angular distribution, reactor shielding, iron

ABSTRACT: The authors have measured the angular and energy distributions of fast neutrons behind iron shields of 10 and 15 cm thickness. The results of the experiment are compared with calculations by the Monte Carlo method and with many-group calculations by the "transmission" matrix method in the $2P_7$ approximation. The results of the calculations show that the transmission of the shield depends strongly on the angular distribution of the incident radiation. The transmission measurements were made using an RIZ uranium-water reactor with a stainless steel reflector. The agreement of the experimental and the calculated data are found to

Card 1/2

UDC: 539.125.52

L 06993-67

ACC NR: AP6021522

be satisfactory both in absolute magnitude and in the form of the angular distributions. A study was also made of the difference in character of the spatial and angular distributions of fast neutrons from a point source in an infinite homogeneous medium and from a point source located at a plane barrier. The results show that the allowance for the thickness of the shield leads to a steeper fall off in the neutron flux than in the case of an infinite medium. Other differences between infinite and finite shields are also pointed out. The authors thank Yu. A. Kazanskiy for valuable advice and discussions. Orig. art. has: 5 figures and 1 formula.

SUB CODE: 18 SUBM DATE: 04Sep65/ ORIG REF: 013/ OTH REF: 004

Card 2/2 LC

L 05048-67 EWT(m) JR/GD

ACC NRG AT6027922

SOURCE CODE: UR/0000/66/000/000/0072/0073

AUTHOR: Dulin, V. A.; Kazanskiy, Yu. A.

ORG: None

TITLE: Angular distributions of fast neutrons in various environments

SOURCE: Voprosy fiziki zashchity reaktorov (Problems in physics of reactor shielding), sbornik statey, no. 2. Moscow, Atomizdat, 1966, 72-73

TOPIC TAGS: angular distribution, anisotropic medium, neutron energy distribution, fast neutron

ABSTRACT: The authors consider the angular energy distributions of fast neutrons under conditions of barrier geometry as a function of the atomic weight of the ambient medium, the thickness of the barrier and the energy and shape of the neutron source. For media which do not contain hydrogen, the angular distribution of the radiation within the solid angle $2\pi \sin^2 \theta$ from an isotropic point source of neutrons with an energy of 3.4 Mev at angles of 20-70° is isotropic and practically independent of atomic weight and thickness of the medium (for a thickness of 1.5-5 times the mean free path) with an accuracy of 20-30%. As the energy of the neutron source is increased, the dosage in this solid angle begins to show angular anisotropy. Curves are given showing the angular distribution of fast neutrons with an energy above this threshold value. The results show that the angular distribution of fast neutron radiation for

L 05048-67

ACC NR: AT6027922

2
angles greater than 30° is dependent of the form of the environment or its thickness and is not even affected by the energy and shape of the neutron source. The measurement error is less than 10%. It is possible that this conclusion will not be valid for a greater thickness and neutrons in the reactor spectrum. The authors thank S. G. Tsypin for useful consultation and V. G. Dvukhsheerstnov for assistance in the work.
Orig. art. has: 2 figures.

SUB CODE: ¹⁸20,12/ SUBM DATE: 12Jan66/ ORIG REF: 003/ OTH REF: 001

FRIDLYAND, A.M., insh.; DULIN, V.D.; FELONIN, A.N.

Operation of powered units for changing mine cars during
the construction of mines in Karaganda. Shakht. stroi.
7 no.12:21-25 D'63. (MIRA 17:5)

1. Trest Dolinskshakhtostroy (for Fridlyand).
2. Shakhtostroitel'noye upravleniye No.3 tresta Dolinskshakhtostroy
(for Dulin, Felonin).

TERMAN, P.; PETTIT, J.M. ; DULIN, V.M. [translator] FROLKIN, V.T.,
redaktor; GESSIN, L.V., redaktor; GERASIMOVA, Ye.S., tekhnicheskii redaktor

[Electronic measurements. Translated from the English] Izmeritel'naya tekhnika veelektronike. Per.s angliiskogo V.M. Dulina. Pod red. V.T.Frolkina. Moskva, Izd-vo inostrannoi lit-ry 1955. 604 p.

(MLRA 8:10)

(Electronic measurements)

L'YUIS, I. [Lewis, I.A.D.],; UNLS, P. [Wells, P.H.],; DULIN, V.N., [translator],;
ABRAMSON, I.S., red.; MOGILEVSKIY, A.N., red.; TELESNIN, N.L., red.;
SMIRNOVA, N.I., tekhn. red.

[Millimicrosecond pulse techniques] Millimikrosekundnaia impul'snaya
tekhnika. Moskva, Izd-vo inostr. lit-ry, 1956. 367 p. [Translated
from the English]. (MIRA 11:12)

(Pulse techniques(Electronics))
(Microwaves)

DULIN, V. IV.

KUZOVKOV, Nikolay Timofeyevich; DOBROGORSKIY, S.O., doktor tekhn.nauk, prof., rezensent; ~~DULIN, V.M.~~, kand.tekhn.nauk, red.; PETROVA, I.A., izdatel'skiy red.; KOZHIN, V.P., tekhn.red.

[The theory of automatic control based on frequency methods]
Teoriya avtomaticheskogo regulirovaniya, osnovannaya na chastotnykh metodakh. Moskva, Gos.izd-vo obor.promyshl., 1957. 245 p.
-----[Forms and nomograms] Shablony i nomogrammy. 1957. 25 graphs. (MIRA 11:2)
(Automatic control)

DULIN, V.N.

KRICHENSKIY, Yevgeniy Samoylovich; FEDOROVICH, Leonid Grigor'yevich; FETISOV, Vladimir Fedorovich; VERTSEKH, V.N., kand. fis.-mat. nauk, retsensent; KRUGER, M.Ya., inzh., retsensent; SHOSHIN, I.A., inzh., retsensent; SOBOLEV, S.F., inzh., retsensent; DULIN, V.N., kand. tekhn. nauk, red.; BOGOMOLOVA, M.F., red. izd-va; PUKHLIKOVA, N.A., tekhn. red.

[Electrical equipment in optical and mechanical instruments] Elektro-oborudovanie optiko-mekhanicheskikh priborov. Moskva, Gos. izd-vo obor. promysl., 1958. 467 p. (MIRA 11:7)

(Electronic apparatus and appliances)
(Electric apparatus and appliances)

FROLKIN, Viktor Tikhonovich; DULIN, V.N., red.; IVANUSHKO, M.D., red.;
SMUROV, B.V., tekhn.red.

[Pulse techniques] Impul'snaya tekhnika. Pod red. V.N.Dulina.
Moskva, Izd-vo "Sovetskoe radio," 1960. 359 p. (MIRA 13:5)
(Pulse techniques (Electronics))

DULIN, Viktor Nikolayevich; GRIGOR'YEV, B.S., red.; FRIDKIN, A.M.,
tekhn. red.

[Electronic and ionic devices] Elektronnye i ionnye pri-
bory. Moskva, Gosenergoizdat, 1963. 543 p.
(MIRA 17:1)

RASKIN, I. A., Eng.; DULIN, V. S.

Mine Ventilator

New axial mine ventilator of the type VU. UGOL' 28, No. 4, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

DULIN, V.S., kandidat tekhnicheskikh nauk.

Review of R.N.Khadshikov's book, "Collection of examples and problems
in mine mechanics." Ugol' 29 no.1:47-48 Ja '54. (MLBA 7:1)
(Mining engineering) (Khadshikov, R.N.)

DULIN, V.S., kandidat tekhnicheskikh nauk.

Book by Candidate of Technical Sciences A.A.Ostrometskii
"Studies in the history of Russian mining" reviewed by V.S.Dulin.
Ugol' 29 no.7:46-48 J1 '54. (MLRA 7:7)
(Mining engineering--History) (Ostrometskii, A.A.)

DULIN, V.S., dotsent.

Some problems of further development of mine fan design. Gor.
Zhur. no.10:46-48 0 '56. (MLBA 9:12)

1. Donetskyy industrial'nyy institut imeni N.S.Khrushcheva.
(Mine ventilation) (Fans, Mechanical)

Dvlin V.S.

PAK, V.S., professor, redaktor; BORISHENKO, K.S., kandidat tekhnicheskikh nauk, dotsent, redaktor; ~~DOLIN, V.S.~~, kandidat tekhnicheskikh nauk, dotsent, redaktor; ~~BUSHKIN, A.M.~~, ~~svetotekhnicheskyy~~ redaktor; D'YAKOVA, G.D., redaktor izdatel'stva; ANDREYEV, G.G., tekhnicheskyy redaktor; SABITOV, A., tekhnicheskyy redaktor. . (MLRA 10:11)

[Mine fans and ventilation equipment; proceedings of a conference on mine fan manufacturing] Shakhtnye ventilatory i ventilatornye ustanovki; trudy konferentsii po shakhtnoy ventilatsionnoy tekhnike, g. Staline, liun' 1955 g. Moskva, Ugletekhnizdat, 1957. 142 p.

1. Nauchno-tekhnicheskoye obshchestvo gornyakov. Stalinskoye oblastnoye otdeleniye. 2. Deyatvitel'nyy chlen AN USSR (for Pak).. (Mine ventilation)

DULIN, V. S.

26

PHASE I BOOK EXPLOITATION

SOV/5473

Gornoye delo; entsiklopedicheskiy spravochnik. t. 8: Statsionarnoye elektromekhanicheskoye oborudovaniye. Elektrosnabzheniye shakht (Mining Industry; an Encyclopedic Handbook. v. 8: Stationary Electro-mechanical Equipment. Electric Power Supply to Mines) Moscow, Gosgortekhnizdat, 1960. 784 p. Errata slip inserted. 18,500 copies printed.

Chief Ed.: A. M. Terpigorev (Deceased); Members of the Editorial Board: A. I. Baranov, F. A. Barabanov (Deceased), A. A. Boyko, V. K. Buchnev, A. N. Zaytsev; Deputy Chief Eds.: L. K. Kit and N. V. Mel'nikov; L. N. Plaksin, N. M. Pokrovskiy, A. A. Skochinskiy (Deceased), A. O. Spivakovskiy, L. K. Stanchenko, A. P. Sudoplatov, A. V. Topchiyev, S. V. Troyanskiy, A. K. Kharchenko, L. D. Shevyakov and M. A. Shchedrin; Editorial Board for this volume: Resp. Ed.: F. A. Barabanov; Deputy Resp. Ed.: Z. M. Melamed; N. A. Arsamakov, G. M. Yelanchik, V. K. Yefremov, B. I. Zasadych, I. M. Zhuravkhov, N. A. Letov, P. P. Nesterov, I. A. Rabinovich, K. I. Skorkin, and V. A. Sumchenko; Authors: G. A.

Card 1/18

Mining Industry (Cont.)

SOV/5473

26

Babak, Candidate of Technical Sciences, V. D. Belyy, Professor,
 Doctor of Technical Sciences, K. S. Borisenko, Candidate of Technical
 Sciences, A. G. Borumenskiy, Candidate of Technical Sciences, I. V.
 Brusilovskiy, Candidate of Technical Sciences, A. R. Bushel', Candi-
 date of Technical Sciences, V. P. Bukhgo'l'ts, Engineer, M. N. Vastilevskiy,
 Candidate of Technical Sciences, A. N. Vas'kovskiy, Engineer, B. N.
 Vlasenko, Engineer, I. Ya. Gershikov, Engineer, V. G. Geyer, Professor,
 Doctor of Technical Sciences, A. D. Dimashko, Engineer, V. S. Dulin,
 Candidate of Technical Sciences, I. L. Lokshin, Engineer, B. M. Melamed,
 Engineer, Yu. A. Mikhayev, Engineer, V. P. Morozov, Engineer, M. L.
 Mushkatin, Engineer, V. S. Pak, Academician, I. M. Perskaya, Engineer,
 N. M. Rusanov, Candidate of Technical Sciences, O. P. Savel'yev, Candi-
 date of Technical Sciences, Ya. M. Smorodin'skiy, Candidate of Technical
 Sciences, K. A. Ushakov, Honored Scientist and Technologist, Professor,
 Doctor of Technical Sciences, B. M. Furmanov, Engineer, and N. N. Cher-
 navkin, Engineer. Eds.: Ya. M. Drosdov, Engineer, B. I. Zasadych,

Card 2/16

26

Mining Industry (Cont.)

SOV/5473

Candidate of Technical Sciences, N. S. Karpyshev, Candidate of Technical Sciences, N. A. Letov, Candidate of Technical Sciences, Z. M. Melamed, Candidate of Technical Sciences, Yu. A. Mikheyev, Engineer, V. P. Morozov, Engineer, V. I. Polkovskiy, Professor, Doctor of Technical Sciences, I. A. Rabinovich, Engineer, M. S. Rabinovich, Candidate of Technical Sciences, I. A. Raskin, Engineer, V. S. Tulin, Engineer, S. Ye. Unigovskiy, Engineer, K. A. Ushakov, Honored Scientist and Technologist, Professor, Doctor of Technical Sciences, M. M. Shemakhanov, Candidate of Technical Sciences, P. F. Shishkov, Candidate of Technical Sciences, and V. B. Yablonovskiy, Engineer; Eds. of Publishing House: N. A. Arzamasov and T. I. Rybal'nik; Tech. Ed.: V. L. Prozorovskaya and M. A. Kondrat'yeva.

PURPOSE: This handbook is intended for mining and mechanical engineers as well as for other skilled personnel of the mining industry concerned with the handling and operation of various installations and equipment used in mines.

Card 3/16

26

Mining Industry (Cont.)

SOV/5473

COVERAGE: Volume VIII of the mining handbook contains detailed information on mine hoisting installations, machines and equipment, mine ventilation units, duct systems, dewatering facilities, various types of pumps, pump motors, pumping stations, and the automatic remote control of these units. The handbook also describes and explains the operation of the air compression units and compressors. Heat-generating and heat-supply equipment of mines is described, as are the electric power supply systems and other electrical equipment such as transformers, power distribution systems, and grounding devices. Telephone communication and signaling systems used in mines are also treated. No personalities are mentioned. Each part of the handbook is accompanied by references, mostly Soviet.

TABLE OF CONTENTS [Abridged]:

PART I. MINE HOISTING UNITS

Card 4/18

Mining Industry (Cont.)

SOV/5473

PART II. MINE FAN INSTALLATIONS

Introduction (Ushakov, K. A., Professor, Doctor of Technical Sciences)	178
Ch. I. Fundamentals of the Fan Theory (Brusilovskiy, I. V., Candidate of Technical Sciences, and I. L. Lokshin, Engineer)	178
Ch. II. Aerodynamic Calculation of Fans (Brusilovskiy, I. V., and I. L. Lokshin)	193
Ch. III. Mine Fan Installations and Ventilation Systems (Bushel', A. R., and V. S. Dulin, Candidates of Technical Sciences)	205
Ch. IV. Design of Mine Fans (Dulin, V. S., and G. A. Babak, Candidate of Technical Sciences)	219

Card 7/18

Mining Industry (Cont.)

SOV/5473

Ch. V. Mine Fan Installations of the Main Ventilation System and Equipment (<u>Dulin, V. S.</u>)	263
Ch. VI. Operation of Mine Fan Installation (<u>Dulin, V. S.</u>)	287
Ch. VII. Testing Fans Under Mining Conditions (<u>Dulin, V. S.</u>)	297
Ch. VIII. Selection of Fans (<u>Dulin, V. S.</u>)	301
Bibliography	308

PART III. MINE DEWATERING INSTALLATIONS
(V.G. Geyer, Professor, Doctor of Technical
Sciences, and N. N. Chernavkin, Engineer)

Ch. I. Fundamentals of Mine Dewatering	310
--	-----

Card 8/18

MATVEYEV, M.T.; DULIN, V.S.

Introduction of new designs of mine fans. Ugol' Ukr. no.6:
46-47 Je '60. (MIRA 13:7)

1. Glavnyy spetsialist Gosudarstvennogo nauchno-tekhnicheskogo
komiteta USSR (for Matveyev). 2. Rukovoditel' brigady Gosudarst-
vennogo nauchno-tekhnicheskogo komiteta USSR (for Dulin).
(Mine ventilation)
(Fans, Mechanical)

DULIN, V.S., kand.tekhn.nauk; KOVALEVSKAYA, V.I., inzh.

Centrifugal mine fans with a two-way intake. Sbor. trud. Inst. gor.
dela AN URSR no.12:47-58 '61. (MIRA 15:11)
(Fans, Mechanical)

DULIN, V.S., dotsent, kand.tekhn.nauk

Nomogram for determining the specific weight of a methane-air mixture. Ugol' 37 no.5:45-46 My '62. (MIRA 15:6)

1. Donetskij politekhnicheskij institut.
(Mine gases)

ALIFEROV, V.P., inzh.; LAVRIK, V.G., inzh.; DULIN, V.S., kand. tekhn.
nauk; SKLIVRA, A.A., kand. tekhn. nauk

Characteristics of water ring vacuum pumps used in degasing
coal mines. Ugol' 38 no.9:54 S '63. (MIRA 16:11)

1. Donetskij politekhnicheskij institut.

CHENTSOV, I.V.; DULINA, R.M.; DOVGAYLO, V.A.

New method of determining shrinkage after wetting. Tekst.prom.
15 no.10:47-48 0 '58. (MIRA 11:11)

1. Glavnyy inzh. Minskogo tonkosukonnogo kombinata (for Chentsov).
 2. Zavedyushchaya laboratoriyey Minskogo tonkosukonnogo kombinata (for Dulina).
 3. Nachal'nik Otdela tekhnicheskogo kontrolya Minskogo tonkosukonnogo kombinata (for Dovgaylo).
- (Textile fabrics--Testing)

DULINIEC, M.

We are fighting for a modern and fast merchant marine.

p. 3 (Morze, Vol. 12, no. 6, June 1957. Warszawa, Poland)

Monthly Index of East European Accessions (EEAI) IC. Vol. 7, no. 2,
February 1958

DULINIEC, W.

Two statutes, one aim; a polemic article on the margin of the formation of agricultural circles.

p. 4 (Rolnik Spoldzielca. Vol. 9 (i.e. 10) no. 3, Jan. 1957. Warszawa, Poland)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1958

DULINIEC, W.

What should be changed in the purchase of grain?

p. 5 (Rolnik Spoldzielca. Vol. 9 (i.e. 10) no. 2, Jan. 1957. Warszawa, Poland)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1958

DULINIEC, W.

"The subject of the discussion of the council of the Warszawa Voivodeship Administration of Township Cooperatives."

p. 1 (Rolnik Spoldzielca) Vol. 10, no. 3, Jan. 1958
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

DULININ, M. M.

Dulinin, M. M. and Zaverina, E. D., Sorption and structure of active carbons. III. The change of the character of porousness of carbon and the sorption of water vapor. P. 57.

Isotherms of sorption and desorption of water vapors on carbon, produced from sugar, which had adsorbed various amounts of benzene vapor were studied. It is shown that the blocking of the most active sections of the surface of the carbon by benzene leads to a shift of the sorption isotherms into the region of higher relative pressures, analogous to the shift observed during progressive activation of carbon. These results agree with the expressed hypothesis about the nature of sorption of water vapors.

May 19, 1948

SO: Journal of Physical Chemistry (USSR) 23, No. 1 (1949)

DULINSKI, Wladyslaw; KOESLING, Zofia

The elimination of hydrogen sulfide from gases. Wlad naft 6 no.2:
29-30 F '60. (SEAI 9:10)
(Gases) (Hydrogen sulfide)

DULINSKI, Wladyslaw, mgr ins.; SIEMEX, Jakub, mgr ins.

Inversion curves for natural gas. Nafta Pol 18 no.12:331-333
D '62.

1. Akademia Gorniczo-Hutnicza, Krakow.

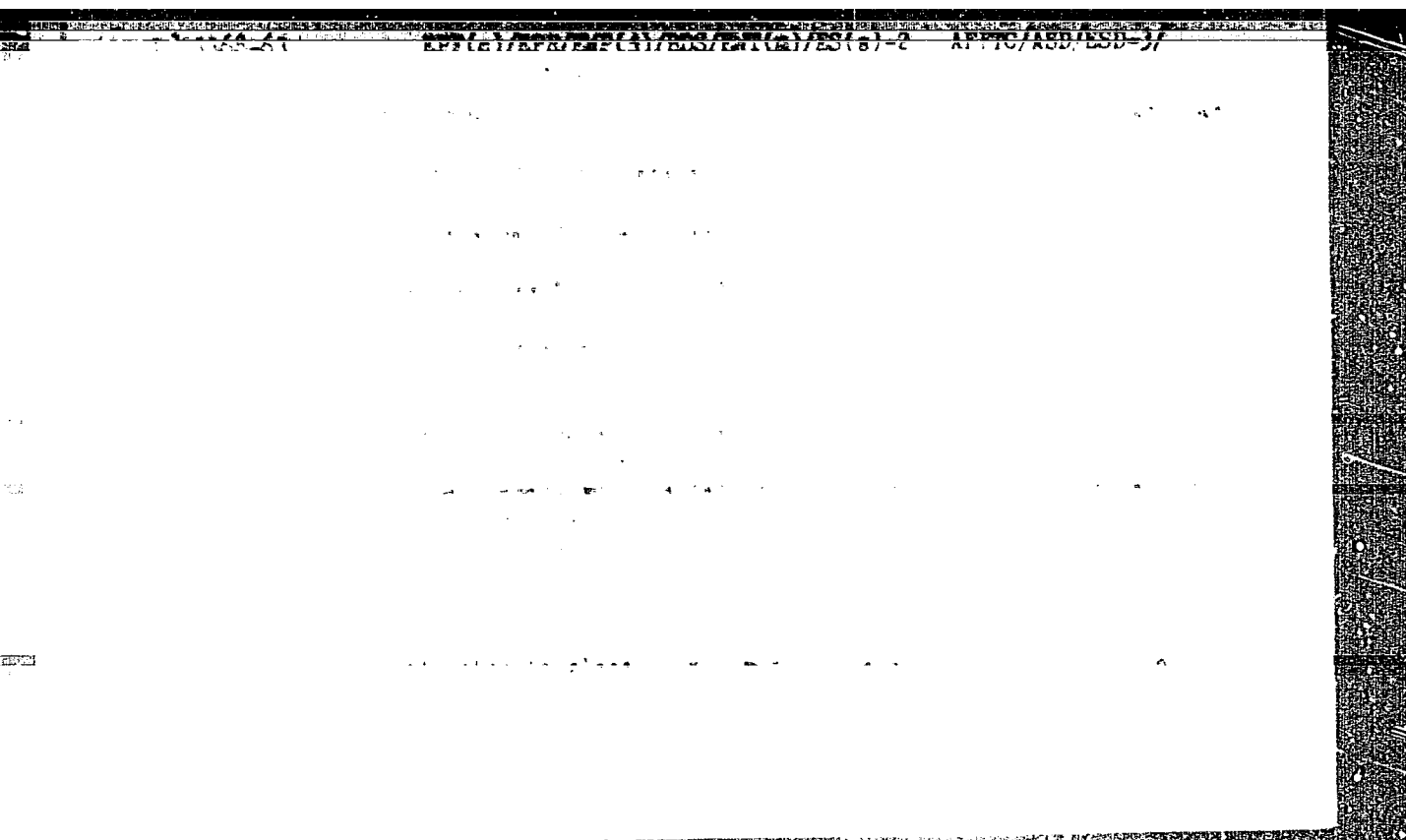
WILK, Zdzislaw, prof. mgr ins.; DULINSKI, Wladyslaw, mgr ins.; KOHSLING,
Zefia, mgr; SIEMEK, Jakub, mgr ins.

Laboratory studies on winning sulfur through boreholes. Nafta Pol
19 no.4:89-93 Ap '63.

1, Akademia Gorniczo-Hutnicza, Krakow.

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041151



APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041151

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041151

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R000411510

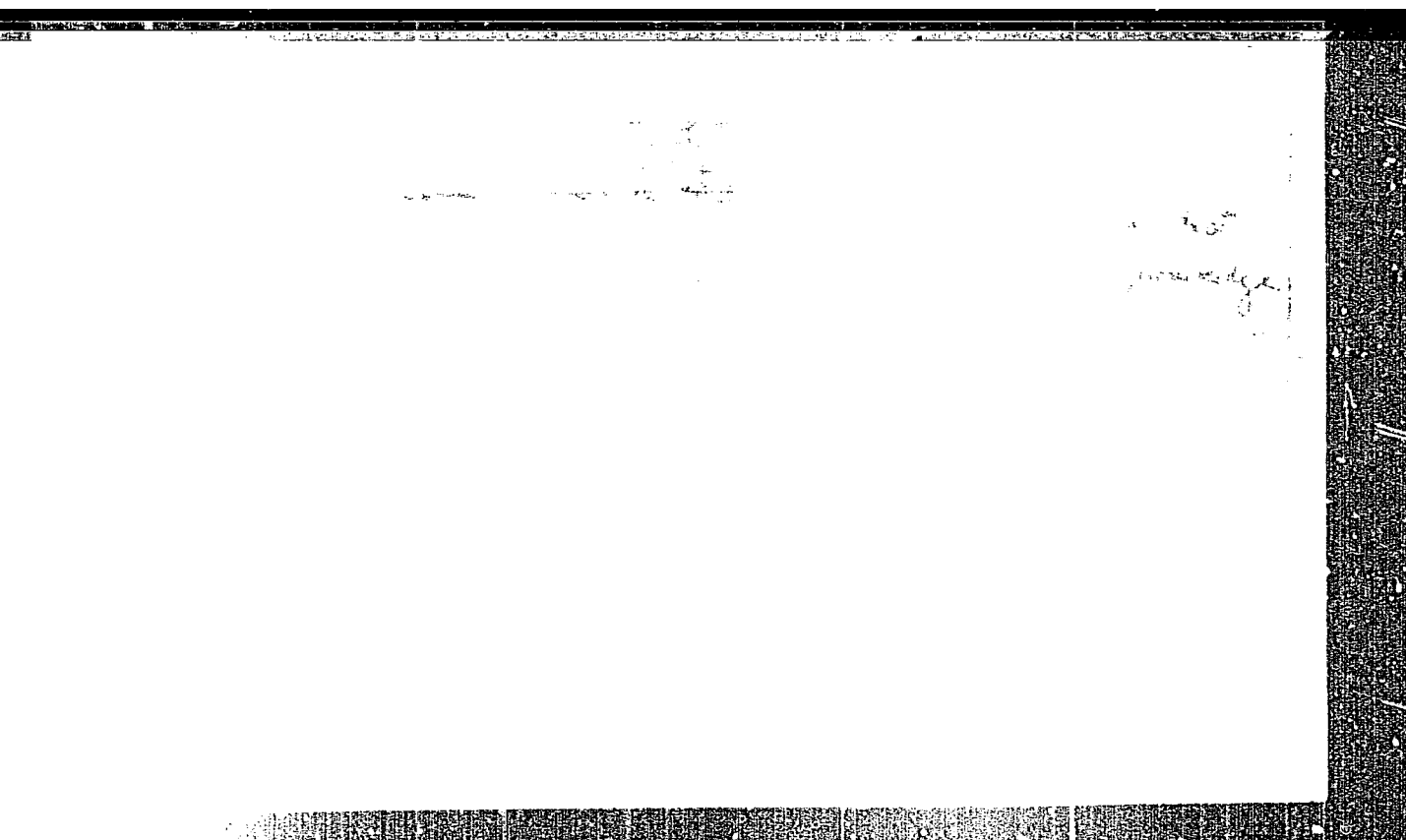
DULITSKAYA, K. A.

"Vapor Pressure of Binary Systems. I." Zhur. obshch. khim., No.15, pp. 9-21,
(English summary pp. 22-36), 1945.

Lab. Chem. Thermodynamics, Moscow State U.

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041151



APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041151

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041151

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R000411510

TOLSTOPYATOVA, A.A.; YUY TSE-TOYUAN' [Yu Ch'i-ch'uan]; DULITSKAYA, K.A.

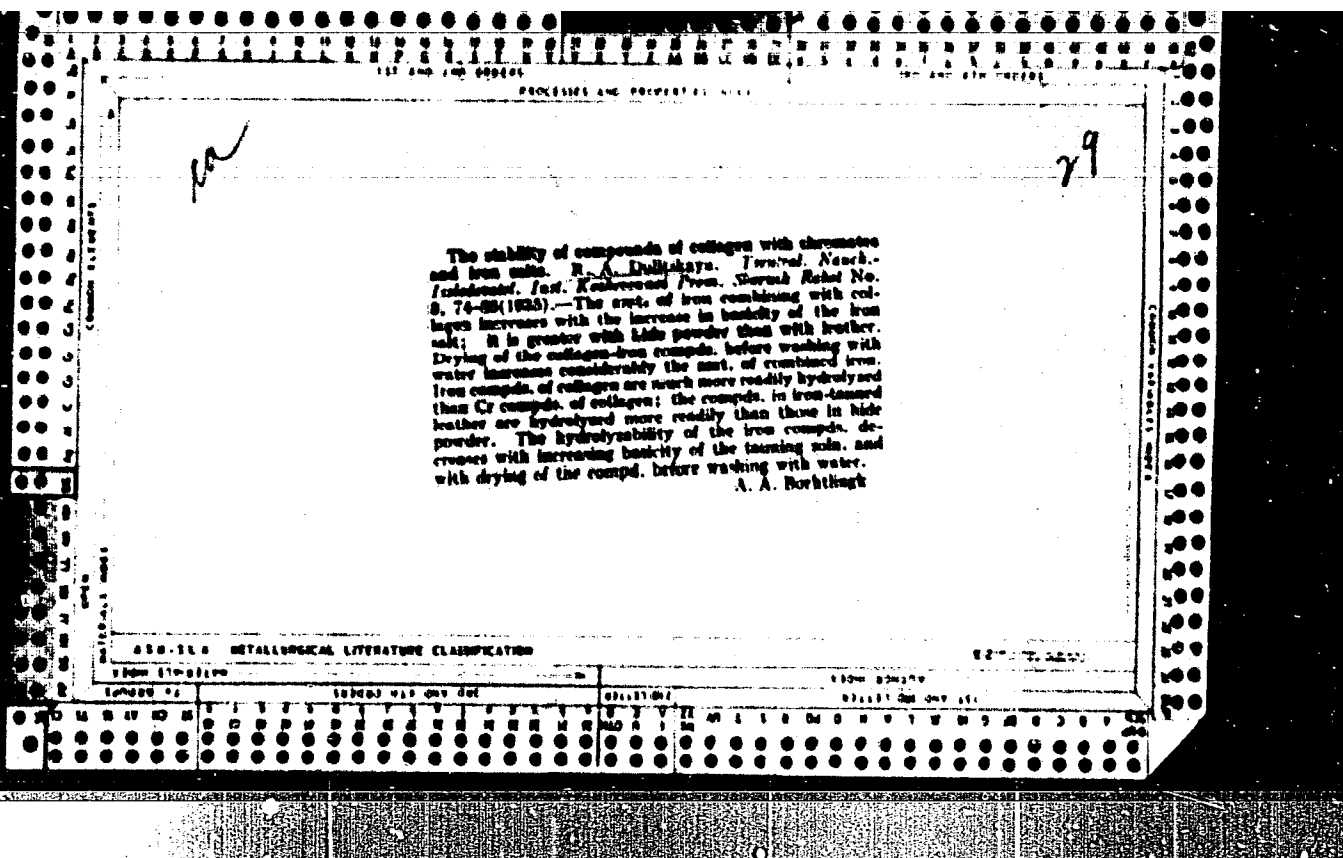
Catalytic properties of neodymium oxide in the reactions of
dehydrogenation of tetralin. Izv. AN SSSR, Ser. khim. no.12:
2095-2100 D '63. (MIRA 17:1)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN
SSSR.

ZAYDLER, Ya.I.; DULITSKAYA, R.A.

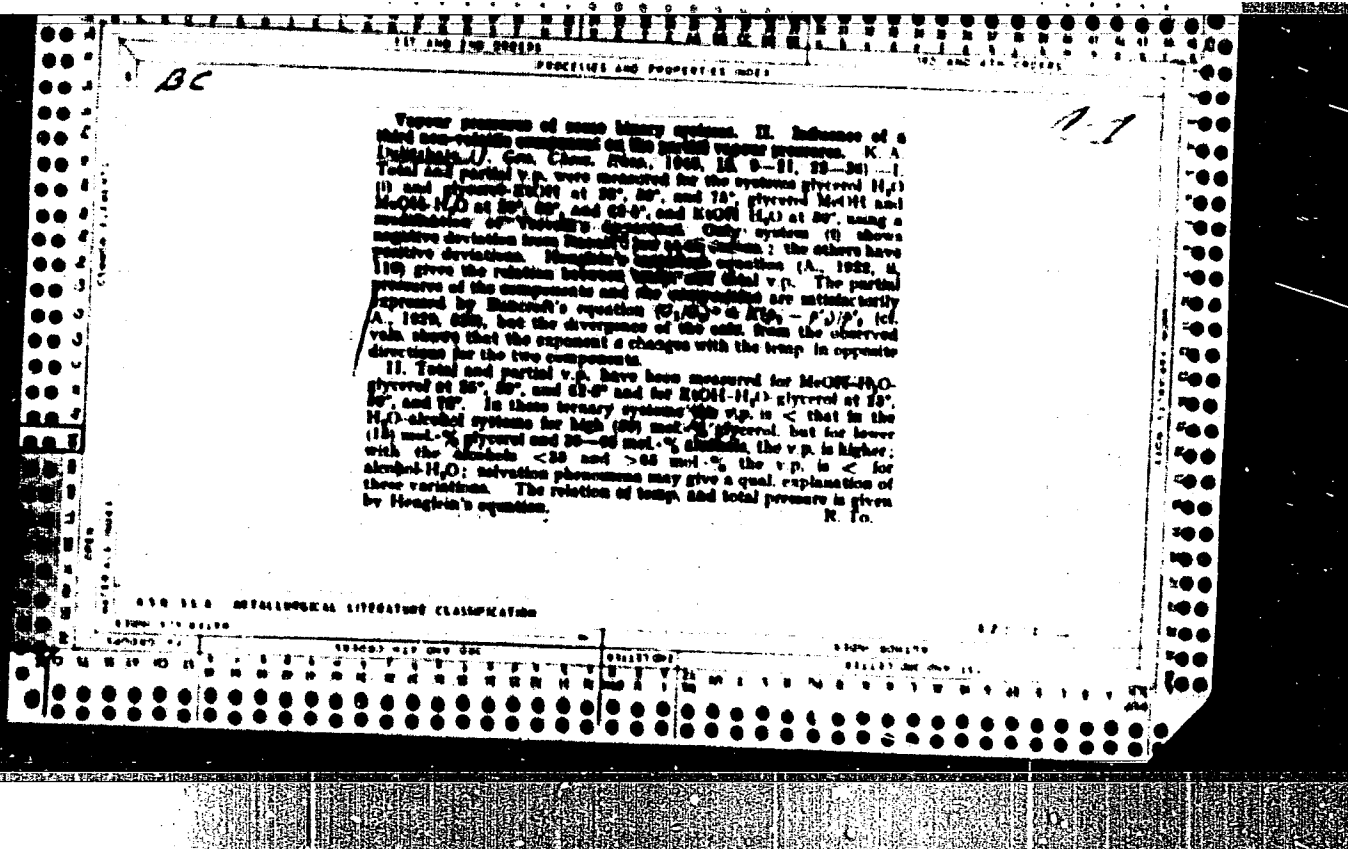
Some characteristics of blood coagulation in frogs. *Fiziol.zhur.*
47 no.3:336-340 Mr '61. (MIRA 14:5)

1. From the Pharmacology Chair, the Pharmaceutical Division of the
Sechenov 1st Medical Institute, Moscow.
(BLOOD—COAGULATION)



<p><i>ca</i></p>	<p>The structure and physicochemical properties of gelatin. R. A. Danks and R. I. Fisher. <i>Tetrahedron News-Extraction</i>. Fort. Krichbaum Press, Stenois i Pap-Melton, Switzer Kanchaka, Kollagen i Protein. 1955 Tullerley, Jorath Babel Ph.-Klin. Odele Ti.: NIKP. 1957, 123-40.—The differences in properties of readily sol. and difficultly sol. fractions of gelatin are mainly physical, not chem. The mech. properties of investigated gelatin films approached those of rubber.</p>	<p>29</p>
<p>Chemical Abstracts</p>	<p>The structure and mechanical properties of collagen fibers. A. L. Salts and R. I. Fisher. <i>Ibid.</i> 141-61.—The mech. properties of gelatin, a middle layer of cartilage skin, hide and collagen fibers prepd. from the upper part of cartilage of a 6-year bull were investigated. The structural changes in the collagen fibers after tanning. <i>Ibid.</i> 169-81 —Changes of collagen fibers were tanned with various tanning agents. The changes indicate that the tanning agent reacts chemically with active groups of side chains of collagen.</p>	<p>Chemical Abstracts</p>
<p>Chemical Abstracts</p>	<p>A. A. Podgorny Hide leather without chromate. D. Jordan Lloyd. <i>Lantern World</i> 22, 32-9(1941).—American chromate est. (I) differs considerably from the European variety (II), and cannot replace the latter, now unsatisfactory, without modification of the brand. In general, I has a higher pH and buffer value, and a lower tan/moisture ratio than II. Satisfactory sole leather can be made without the use of either I or II by substituting suitably balanced blends of materials still readily available.</p>	<p>Chemical Abstracts</p>
<p>ASAC-SG METALLURGICAL LITERATURE CLASSIFICATION</p>	<p>J. H. Hightower</p>	<p>Chemical Abstracts</p>

CA	<p>Vapor pressure of binary systems. I. N. A. Ilyukhin (Lab. Khimicheskoy Termodynamiki, Moscow, U.S.S.R.). <i>J. Gen. Chem. (U.S.S.R.)</i> 12, 9-21 (1946) (English summary).—Total and partial vapor pressures were measured on modified Vreedy app. (C.A. 5, 1422) for the systems: (1) glycerol-water at 25, 30, and 75°; (2) glycerol-MeOH at 25, 30, and 75°; (3) glycerol-EtOH at 25, 30, and 75°; (4) MeOH-water at 25, 30, and 75°; and (5) EtOH-water at 25°. Only pos. deviations from Raoult's law were observed for any system except system (1), which had a neg. deviation for all concns. The relation between total vapor pressure of binary systems and temp. follows the Henglein equation (C.A. 12, 2075). The relation of the partial pressure of the components of the system and the concn. of the system follows that of the Raoult equation (C.A. 12, 2082). II. The influence of a third nonvolatile component on the partial pressures in the binary systems. <i>ibid.</i> 20-24 (1946) (English summary).—Total and partial pressures were measured for (1) MeOH-water-glycerol at 25, 30, and 75° and (2) EtOH-water-glycerol at 25, 30, and 75°. At high concn. (80 mol. %) of glycerol the partial vapor pressure of the components in the ternary system is lower than in the binary systems at all concns. At glycerol concn. of 10 mol. % and abn. concn. of 33-45 mol. %, the vapor pressure is higher than that in the binary system. At concn. of abn. below 30 and above 60 mol. %, the vapor pressure is lower than in the binary system. These facts are attributed to solvation action between the components of the system. The relation between total vapor pressure and temp. obeys Henglein's equation.</p> <p>A. A. Padgugay</p>	2
450-55.8 METALLURGICAL LITERATURE CLASSIFICATION	U-57-1778.1-1002	
1946 1-12-1179	1946 1-12-1179	1946 1-12-1179



VELIN'LIY, L.I.; DULITSKAYA, R.A.; INYGS, Ye.O.

Correlation between tensile strength and the angle of inclination of the
macromolecular chains in cotton fibers. Khim. i Fis.-Khim. Vysokomolekul.
Soedineniy, Doklady 7-oy Konf. Vysokomolekul: Soedineniyam '52, 250-4.
(CA 47 no.18:9609 '53) (MLRA 5:7)

DULITSKAYA, R. A.

with V. I. Kasatochkin "Examined kinetics and thermodynamics of renaturation under pressure"

report presented at the 10th All-Union Conf. on Highly Molecular Compounds, Biologically Active Polymer Compounds, Moscow, 11-13 June 1958. (Vest. Ak Nauk SSSR, 1958, No. 9, pp. 111-113)

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041151

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R000411510

DONALD PARIC, D.

Air pollution in Lomica. Higijena 16 no.1348-56 141